SKYLINE Oil Company

A TEXAS EASTERN COMPANY

September 2, 1983

State of Utah Natural Resources & Energy Oil, Gas & Mining 4241 State Office Building Salt Lake City, UT 84114

Re: Application for Permit to Drill
East Mustang #13-11
NW4NW4 Section 13, T36S - R23E
San Juan County, Utah
Federal Lease No. U-23523

SEP 00 1933

DIVISION OF OIL, GAS & MINING

Gentlemen:

Attached please find, in triplicate, the Application for Permit to Drill Skyline Oil Company's proposed East Mustang #13-11.

You will note that the proposed well will require an exception to location. The request for exception to location has been submitted and a copy is attached to the APD. If we can be of additional service, please contact the undersigned.

Sincerely,

Michael D. Anderson

Staff Engineer

jw

Attachment

23.

UNITED STATES

(Other instructions on MUUTEAL

Blowout Prevention Progr	ram - See Attachment A	
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If zone. If proposal is to drill or deepen direction preventer program, if any.	f proposal is to deepen or plug back, give data on present productive zone and pro hally, give pertinent data on subsurface locations and measured and true vertical d	posed new productive lepths. Give blowout
SIGNED Deed to Miss	1 TITLE EXMORATION HAWAGER DATE 18	AUG 83
(This space for Federal or State office use)		
PERMIT NO.	APPROVAL DATE	
APPROVED BY Sunt, UK	Ches Associate District Manager DATE 9	18/83
CONDITIONS OF APPRÔVAL, IF ANY:	ITIONS OF APPROVAL ATTACHED	
SUBJECT TO RIGHT OF WAY	FLARING OR VI	ENTING OF OF NTL 4-A
APPROVAL July	*See Instructions On Reverse Side GAS IS SUBJECT DATED 1	/1/80
State of Wan-Orb, mining		

	APPROVAL D	ATE	
TITLE AS	sociate	District	Manager

DEPARTMENT OF THE INTERIOR SECTION 5. LEASE DESIGNATION AND SERIAL NO. CAS OPERATIONS **U-2**3523 **GEOLOGICAL SURVEY** RÉCEIVED 6. IF INDIAN, ALLOTTEE OR TRIBE NAME APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK 1a. TYPE OF WORK 7. UNIT AGREEMENT NAME SALT LAND GIBACK DRILL X DEEPEN [b. TIPE OF WELL MULTIPLE ZONE S. FARM OR LEASE NAME MELL X 2. NAME OF OPERATOR SKYLINE OIL COMPANY 9. WELL NO. 3. ADDRESS OF OPERATOR EAST MUSTANG #13-11 2000 University Club Bldg., Salt Lake City, Utah 84111

LICATION OF WELL (Report location clearly and in accordance with any State requirements.*)

At surface 1281 / NIT 660 / LIT (NIT) NIT) Con 12 CT 26 CT 10. FIELD AND POOL, OR WILDCAT Wildcat 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 1281'/NL, 660'/WL (NW NW) Sec. 13, T. 36 S., Sec. 13, T. 36 S., R. 23 E., S.L.M. R. 23 E., S.L.M. At proposed prod. zone Same 12. COUNTY OR PARISH | 13. STATE 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE. 7.5 miles East-Northeast of Blanding, Utah San Juan Utah 17. NO. OF ACRES ASSIGNED TO THIS WELL 16. NO. OF ACRES IN LEASE 15. DISTANCE FROM PROPOSED* 660' LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit line, if any) 720 80 20. ROTARY OR CABLE TOOLS 19. PROPOSED DEPTH 18. DISTANCE FROM PROPOSED LOCATION[®]
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT. 6300' N.A. Rotary 22. APPROX. DATE WORK WILL START* 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6080' Sept. 15, 1983

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
16"	13-3/8"	48#	30' -	Redi-Mix
12½"	9-5/8"	36#	2000'	900 sx (Circ. to Surface)
8-3/4"	7''	20#-26#	6300'	700 sx

Expected Formation Tops:

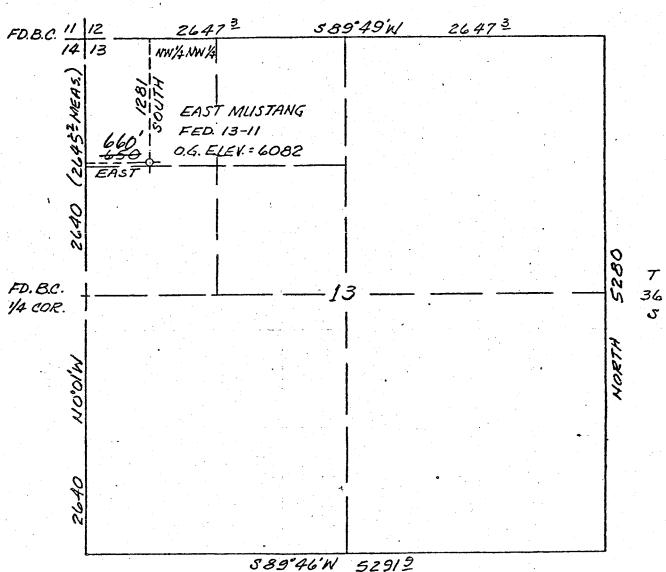
970' Entrada: Navajo: 1170' Wingate: 1630' Chinle: 1920' Cutler: 2850'

4520' Hermosa: 5860' Ismay: 6100' Desert Creek: 6210' Akah Shale:

Mud Program - See Attachment A

BYDATE	SUBJECT	SHEET NO OF
CHKD, BYDATE	***************************************	JOB NO

R23E



BOUNDARY CALLS ARE RECORD G.L.O.



WELL LOCATION PLAT OF

EAST MUSTANG FED. 13-11 IN

NW 14 NW 4, SEC.13, T36S, R23E, S.L.B. &M.

SAN JUAN COUNTY, UTAH

TRANSIT & ED.M. SURVEY

FOR: SKYLINE OIL CO.

SCALE: 1:-1000' AUG. 5, 1983

ELEN BY VER ANGLES FROM U.S.G.S. TOPO. QUAD. BLANDING, UTAH", 1957 (N.W. COR., SEC. 13 = 6/65)

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Company	Skvli:	ne Oil	C	ompany

Well No. East Mustang #13-11

Location Sec. 13, T. 36 S., R. 23 E.

Lease. No. U-23523

A COPY OF THESE CONDITIONS SHOULD BE FURNISHED YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (30 CFR 221), and the approved plan of operations. The operator is considered fully responsible for the actions of his subcontractors. The following items are emphasized:

- There shall be no deviation from the proposed drilling and/or workover program as approved. Safe drilling and operating practices must be observed. All wells, whether drilling producing, suspended, or abandoned shall be identified in accordance with 30 CFR 221.22. Any changes in operations must have prior approval of this office. Pressure tests are required before drilling out from under all casing strings set and cemented in place. Blowout preventer controls must be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to insure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs. All BOP pressure tests must be recorded on the daily drilling report.
- 2. All shows of fresh water and minerals will be reported and protected. A -sample will be taken of any water flows and furnished this office for analysis. All oil and gas shows will be adequately tested for commercial possibilities, reported and protected.
- 3. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of this office. If operations are to be suspended, prior approval of this office must be obtained and notification given before resumption of operations.

In the event abandonment of the hole is desired, an oral request may be granted by this office, but must be timely followed within 15 days with a "Notice of Intention to Abandon" (Form 9-331). Unless the plugging is to take place immediately upon receipt of oral approval, the District Manager must be notified at least 48 hours in advance of the plugging of the well in order that a representative may witness plugging operation. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form 9-331) must be submitted within 15 days after the actual plugging of the well bore, reporting where the plugs were placed, and the current status of the surface restoration. If surface restoration has not been completed at that time, a follow-rup report on form 9-331 should be filed when all surface restoration has been completed and the location is considered ready for final inspection.

4. The spud date will be reported orally to the respective District Manager's office within 48 hours after spudding. If the spudding occurs on a weekend or holiday, wait until the following regular workday to make this report.

Periodic drilling progress reports must be filed directly with the District Manager's office on a frequency and form or method as may be acceptable to the District Manager.

In accordance with NTL-1, this well must be reported on Form 9-329 "Monthly Report of Operations", starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report should be filed, in duplicate, directly with Royalty Management Accounting Center, Minerals Management Service, P. O. Box 2859, Casper, Wyoming 82602.

Any change in the program must be approved by the District Manager. "Sundry Notices and Reports on Wells" (form 9-331) must be filed for all changes of plans and other operations in accordance with 30 CFR 221.58.

Emergency approval may be obtained orally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alteration of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground will require the filing of a suitable plan pursuant to NTL-6, and prior approval by the District Manager.

- pletion and Recompletion Report and Log" (form 9-330) will be submitted not later than 15 days after completion of the well or after completion of operations being performed, in accordance with 30 CFR 221.59. Two copies of all logs run, core descriptions, core analyses, well-test data, geologic summaries, sample descriptions, and all other surveys or data obtained and complied during the drilling, workover, and/or completion operations, will be filed with form 9-330. Samples (cuttings, fluid, and/or gas) will be submitted only when requested by this office.
 - Significant surface values (are) (are not) involved at this location.
 Accordingly, you (must) (need not) notify at least (24) (48) hours prior to commencing field operations to allow this office to have personnel present for consultation during the construction of roads and locations.

Your contact w	ith the Distri	ct Office is:	Tom Hare		
Office Phone:	801-259-6111	EXT 235	Home Phone:	801-259-7965	
City:	Moab		State:	Utah	
Resource Area	Manager's Addr	ess and contai	cts are:		
Address: 480	South First We	est, P.O. Box	7, Monticello, Ut	ah 84535	
Your contact i	s: Brian Wood	<u>d</u>			
Office Phone:	801-587-2201		Home Phone:	801-587-2087	

7. SURFACE OPERATING STANDARDS

Unless otherwise specified herein, construction and maintenance of surface facilities approved under this plan shall be in accordance with the guidelines set forth in the BLM/FS/GS Oil and Gas Brochure entitle, "Surface Operating Standards for Oil and Gas Exploration and Development". This includes but is not limited to such items as road construction and maintenance, handling of top soil and rehabilitation.

- 8. If a replacement rig is contemplated for completion operations, a "Sundry Notice" to that effect must be filed, for prior approval of the District Manager, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.
- 9. Pursuant to NTL-2B requirements regarding disposal facilities for new wells, this is authorization for unlined pit disposal of the water produced from this well for a period of 90 days from the date of initial production for sales purposes. During this period, an application for approval of the permanent disposal method, along with the required water analysis and other information must be submitted for the District Manager's approval. Failure to timely file an application within the time allowed will be considered an incident of noncompliance, and will be grounds for issuing a shut-in order until the application is submitted.
- 10. This permit is valid for a period of one year from the date of approval. If construction does not commence within 90 days from approval, the operator must contact this office 15 days prior to beginning construction. Construction under adverse conditions may require additional stipulations. If the permit terminates, any surface disturbance created under the application must be rehabilitated in accordance with the approved plan. After termination, it is required that a new application be filed for approval for any future operations.
- 11. If a tank battery is constructed on this lease, it must be surrounded by a fire wall of sufficient capacity to adequately contain the storage capacity of the battery.
 - 12. This Application for Permit to Drill is approved subject to the requirement that, should the well be successfully completed for production, this office must be notified when it is placed in a producing status. Such notification will be by telegram or other written communication, and must be received in this office by not later than the first business day next following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - a. Operator name, address and telephone number.
 - b. Well name and number.
 - c. Well location (1/4, 1/4, Section, Township, Range and Prime Meridian).
 - d. Date was placed in a producing status.
 - e. The nature of the well's production, i.e. crude oil, or crude oil and casinghead gas, or natural gas and entrained liquid hydrocarbons.

- f. The OCS, Federal or Indian lease prefix and number on which the well is located. Otherwise, the non-Federal or non-Indian land category, i.e. State or private.
- g. If appropriate, the unit agreement name, number and participating area name.

h.	If	appropriate,	the	communitization	agreement	number.
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13.

SUPPLEMENTAL STIPULATIONS OF APPROVAL ATTACHED

Skyline Oil Company
Well No. East Mustang 13-11
Sec. 13, T. 36 S., R. 23 E.
San Juan County
Lease U-23523

Supplemental Stipulations:

1. Adequate and sufficient electric/radioactive logs will be run to locate anticipated coal beds in the Dakota and saline minerals in the Pennsylvania formations. Casing and cementing programs will be adjusted to eliminate any potential influence of the well bore or productive hydrocarbon zones on the coal and saline minerals resource. Surface casing program may require adjustment for protection of fresh water aquifers.

ADDITIONAL STIPULATIONS FOR PRODUCTION ACILITIES

Your Application for Permit to Drill also included a submittal for production facilities. These production facilities are approved for the lessee and his designated operator under Section 1 of the Oil and Gas Lease with the following conditions:

- (1) The oil and gas measurement facilities must be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy are to be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. Please provide this office with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports are to be submitted to the Salt Lake City District Oil and Gas Supervisor. Royalty payments will be made on all production volume as determined by the meter measurements or the tank measurements. All measurement facilities must conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.
- (2) Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried from the wellhead to the meter and 500 feet downstream of the meter run or any production facilities. Meter runs must be housed and/or fenced.
 - (3) All_disturbed areas not required for operations will be rehabilitated.
- (4) All produced liquids must be contained including the dehydrator vent/condensate line effluent. All production pits must be fenced.
- (5) The well activity, the well status and the date the well is placed on production must be reported on Lessee's Monthly Report of Operations, Form 9-329.
- (6) All off-lease storage, off-lease measurement, or commingling on lease or off-lease must have written approval.
- (7) All product lines entering and leaving hydrocarbon storage tanks must be locked/sealed.
- (8) You are reminded of the requirements for handling, storing, or disposing of water produced from oil and gas wells under NTL-2B.
- (9) All materials, trash, junk, debris, etc. not required for production must be removed from the well site and production facility site at the completion of these operations.
- (10) A copy of the Gas Sales Contract will be provided to this office and the Royalty Accounting Department as directed.
- (11) Construction and maintenance for surface use approved under this plan should be in accordance with the surface use standards as set forth in the BLM/GS Oil and Gas Brochure entitled, "Surface Operating Standards for Oil and Gas Exploration and Development." This includes, but is not limited to, such items as road construction and maintenance, handling of top soil and rehabilitation.
- (12) "Sundry Notice and Reports on Wells" (form 9-331) will be filed for all changes of plans and other operations in accordance with 30 CFR 221.58. Emergency approval may be obtained verbally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alternations of facilities, including roads, gathering lines, batteries, measurement facilities, etc., will require the filing of a suitable plan and prior approval by the survey.

ATTACHMENT A

SKYLINE OIL COMPANY WILDCAT OIL WELL EAST MUSTANG #13-11

NW\(\frac{1}{2}\)NW\(\frac{1}{2}\) Sec. 13, T. 36 S., R. 23 E., San Juan County, Utah

1. The Geologic Name of the Surface Formation:

Morrison Formation (Jurassic)

2. Estimated Tops of Important Geologic Markers:

Entrada	980'
Navajo	1,180'
Chinle	. 1,925'
Ismay	5,850'
Desert Creek	6,100'
Akah Salt	6,250'

- 3. Water sands will be protected behind the surface pipe set at 2200'. Prospective oil producing formations are the Ismay and Desert Creek.
- 4. Proposed Casing Program:

Hole Size	Csg. Size & Weight	Cond.	Setting Depth	Cement
(in.)	(in.) lbs/ft.		(ft.)	
			001	79 - 42
16"	13-3/8" 48	New	30' 2050'	Redi-mix 900 sx
12½"	9-5/8" 36	New		700 sx -
8-3/4"	7" 20#- 26#	New	6200	700 SA.

Actual cement volumes will be determined by caliper log plus adequate excess.

5. Pressure Control Equipment:

Pressure control equipment will consist of a 10" 3000 psi W.P. double gate hydraulic BOP and a 10" 2000 psi W.P. Hydril above 10" 3000 psi W.P. casing head with screwed outlets. See schematic drawings of BOP assembly and choke manifold. We will wait on cement 12 hours, nipple up BOP assembly, and test to 2000 psi (Hydril to 1000 psi) and drill surface casing after 24 hours WOC. Pipe ram operation will be checked daily and blind rams operated when pipe is removed from hole on trips.

6. Drilling Mud Program:

Interval	Program
0 - 2050'	Fresh water with gel required to maintain viscosity at 28-32 sec.
2200 - 4000'	Fresh water, low solids & lightly dispersed MW: 8.8 - 9.0 Vis: 32-38 WL: 10-15
4000 - 6300'	Fresh water, low solids & lightly dispersed MW: 8.8 - 9.0 Vis: 36-40 WL: 10

7. Auxiliary Equipment:

Auxiliary equipment to be used will consist of a Kelly cock and a full-opening drillpipe valve sub in open position on the floor at all times. A bit float will not be utilized unless conditions dictate.

8. Testing, Coring and Logging Program:

/Two drillstem tests are possible -- one each in the Ismay and Desert Creek Formations.

30' to 90' of core in Ismay if warranted 30' to 60' of core in Desert Creek if warranted.

The following logs will be run:

Dual Induction Log TD to bottom of surface pipe GR-FDC-CNL-Cal * TD to bottom of surface pipe GR-Sonic TD to surface

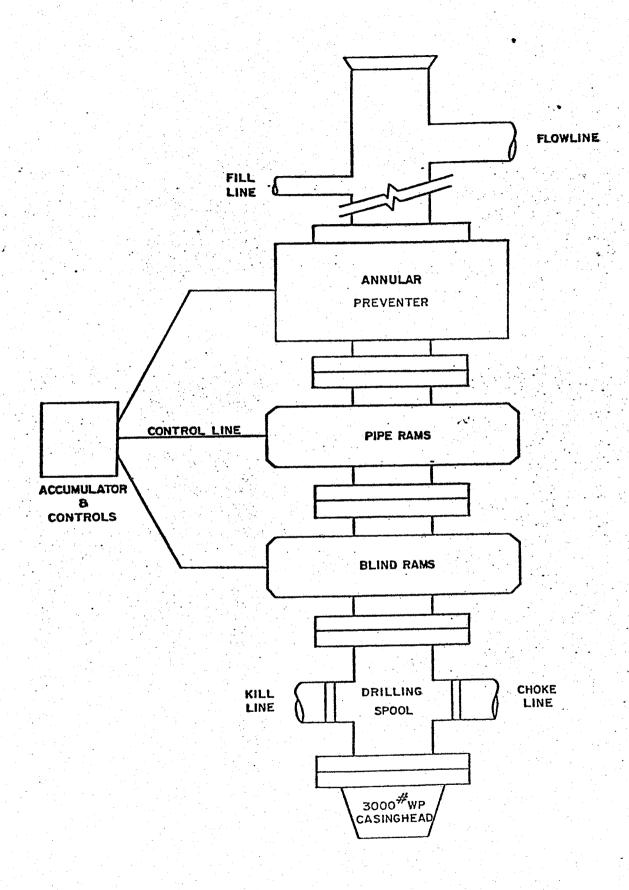
*GR will be run to surface.

9. Anticipated Abnormal Pressures, Temperatures & Potential Hazards:

No abnormal pressures, temperatures or hazards are anticipated.,

10. It is anticipated that drilling operations will commence on or about September 15, 1983 with approximately 20 days of drilling to reach T.D. Completion operations will require an additional 30 - 45 days.

SKYLINE OIL TOMPANY



BLOWOUT PREVENTER SCHEMATIC
3000 psi WORKING PRESSURE

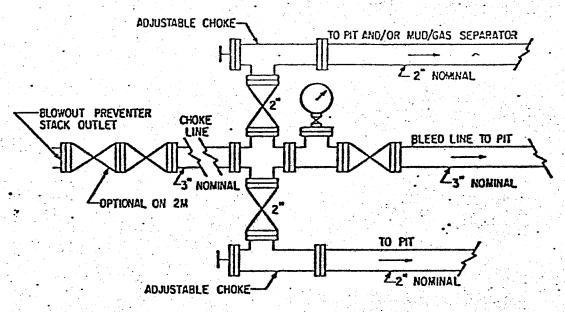


FIG. 3.A.1

TYPICAL CHOKE MANIFOLD ASSEMBLY FOR 2M AND 3M RATED WORKING PRESSURE SERVICE — SURFACE INSTALLATION

MULTIPOINT SURFACE USE AND OPERATIONS

SKYLINE OIL COMPANY

EAST MUSTANG #13-11 WELL
1281' FNL & 660' FWL, Sec. 13, T. 36 S., R. 23 E.,
San Juan County, Utah

Existing Roads - Exhibit "A"

The attached Exhibit "A" shows the well site as staked and its position relative to existing roads, planned access road, and topography.

All existing roads are shown on Exhibit "A".

All county roads are maintained and are all-weather roads.

No maintenance or improvements to existing county roads are planned. Grading will be done if necessary.

2. Planned Access Road:

The attached Exhibit "A" shows the existing powerline service road in red. The service road will be improved as necessary. The Access Road will be 20' wide and approximately 200' long. A cattle guard will be installed through the fence line in the NW½ of Sec. 24. Culverts will be installed where required. If a permanent road is required, surface will be elevated, crowned, ditched and drainage installed as needed. Surfacing material will be gravel obtained through commercial sources.

3. Location of Existing Wells:

The only known existing well within a two-mile radius of the proposed location is the Diablo Unit #1 well in the NW\2SW\2Sec. 18, T. 36 S., R. 24 E., which was plugged and abandoned in July, 1982.

4. Location of Existing and/or Proposed Facilities - Exhibit "B"

Lessee has no existing facilities within a one-mile radius of the proposed location.

The proposed production facilities layout is shown on attached Exhibit "B" at a 1" = 50' scale. All production equipment, production pit and burn pit will be fenced. Two 500 barrel production tanks will be inside a 50' x 30' x 4.5' earthen retaining wall to prevent containination in the unlikely event of a tank rupture. All flowlines will be buried and have working pressures exceeding the highest pressure anticipated for their use.

The disturbed area not required for production operations will be restored in such a manner as practical, to conform to the original topography. Top soil will be redistributed evenly to the disturbed unused area and re-seeded as per Bureau of Land Management requirements.

5. Location and Type of Water Supply:

VWater used for drilling and completion operations will be obtained from Recapture Creek 4 miles north of Blanding, Utah.

6. Source of Construction Materials:

No construction materials not available at the drill site or along the access route will be required during drilling operations other than gravel. Gravel will be purchased through the surface contractor.

No access roads other than that on Exhibit "A" will be required.

7. Methods of Handling Waste Disposal:

Drill cutting water, drilling fluids, etc., created by drilling operations will be placed in the reserve pit. When sufficient time has elapsed for liquid wastes in pits to dry, pits will be backfilled as close to original contour as possible, topsoil spread and re-seeded as per Bureau of Land Management requirements.

Sewage disposal will be by means of self-contained chemical toilets and disposed of in an approved sanitary land fill.

Trash baskets will be used to contain trash with disposal in an approved sanitary land fill.

Produced fluids will be stored in tanks and trucked from location; oil to the pipeline transfer point; and water to an approved disposal well or a drilling well.

8. Ancillary Facilities:

None are planned.

9. Wellsite Layout - Exhibits "C" & "D"

Attached Exhibit "C" is a schematic of the drilling layout. Exhibit "D" is the cross-sections of the proposed location showing amounts of cut and fill required. Reserve pit will be lined with bentonite if required.

10. Plans for Restoration of Surface:

The reserve pit and unused surface will be restored and contoured as close as practical to original topography.

Unused disturbed lands will be covered by stockpiled top soil and re-seeded according to Bureau of Land Management requirements.

Pits will be fenced immediately upon rig release and maintained until restored.

Any oil in pits will be removed and pits will be overhead flagged.

Rehabilitation will begin as soon as practical after rig move-out and will be completed when pits have dried and the season allows re-seeding.

11. Other Information:

Vegetation consists of sagebrush, juniper, pinion pine, and assorted native grasses. Fauna includes deer, rabbits, assorted lizards not exceeding 12 inches in length, and various flying and crawling insects.

The leasehold acreage is Federal with surface administered by the Bureau of Land Management.

Grazing is the only surface use activity in the immediate area of the location.

No dwellings of any type exist in the area and no archeological, historical or cultural site will be disturbed by the proposed operations.

12. Lessee's or Operator's Representative:

Operator's representatives for drilling and completion operations will be:

Mr. Michael D. Anderson
Mr. Reed G. Spjut
c/o Skyline Oil Company
2000 University Club Building
Salt Lake City, Utah 84111

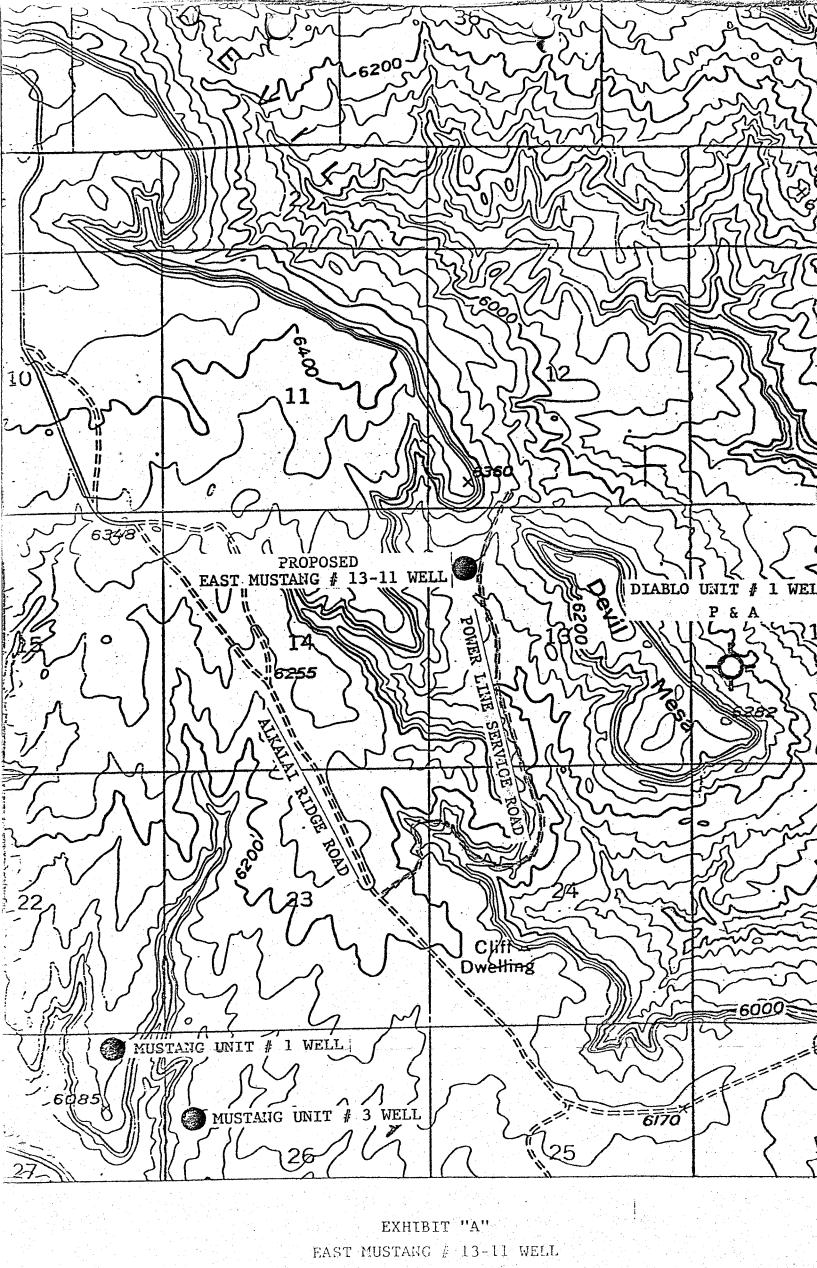
Telephone: (801) 521-3500

13. Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access

route; that I am familiar with the conditions that presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct, and that the work associated with the operations proposed herein will be performed by Skyline Oil Company and its sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Réed G. Spjut // Exploration Manager



NWNW SEC.13, T.36S., R.23E., S.L.M.

SAN JUAN COUNTY, UTAH

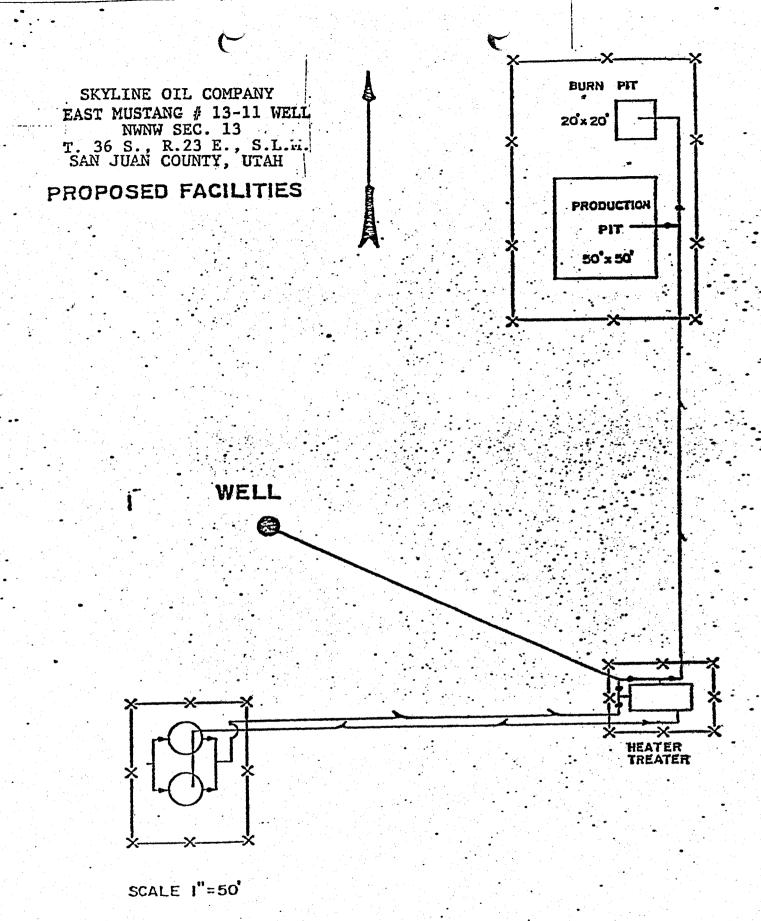


EXHIBIT "B"

SKYLINE OIL COMPANY

EAST MUSTANG # 13-11 WELL
SITE PLAN

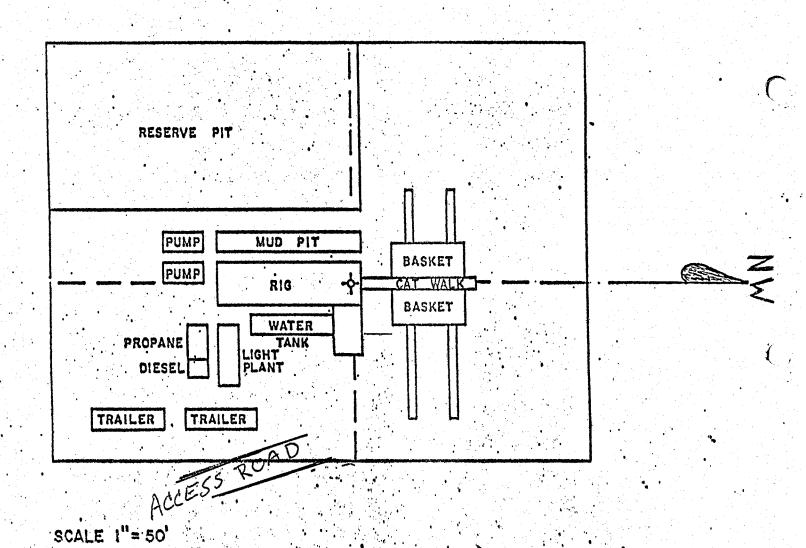


EXHIBIT "C"

259W THIM HAND		(\$P\$2	548°E
545PW	William Conference		1 M 45°E
CROSS Section	NS OF PROPOSED	DRUUSTHE	SKYLINE OIL COMPANY
HORIZOUTAL S	cace: /"=40"		EAST MUSTANG # 13-11
VERTICAL Se	ALE : 11=201		NW NW Sec. 13 T.36 S., R.23 E., SLB&M
			San Juan County, Utah
			EXHIBIT "D"

SKYLINE Oil Company

A TEXAS EASTERN COMPANY

September 2, 1983

State of Utah
Natural Resources & Energy
Oil, Gas & Mining
4241 State Office Building
Salt Lake City, UT 84114

Re: Request for Exception to Location East Mustang #13-11 NW\(\frac{1}{2}\)NW\(\frac{1}\)NW\(\frac{1}{2}\)NW\(\frac{1}\)NW\(\frac{1}{2}\)NW\(\frac{1}{2}\)NW\(\frac{1}{2}\)NW\(\frac{1}{2}\)NW\(\frac{1}{2}\)NW\(\frac{1}{2}\)NW\(\frac{1}{2}\)NW\(\frac{1}{2}\)NW\(\frac{1}{2}\)NW\(\

Gentlemen:

Skyline Oil Company respectfully requests that an exception to location be granted for the above referenced well. The surface location has been staked at 1281' FNL and 660' FWL Section 13, T36S - R23E, San Juan County, Utah. This location is required due to extremely rough topography in this area.

Skyline requests that this location be approved administratively, as Skyline is the sole leaseholder within a 660' radius of the subject location.

It is anticipated that this well will be placed into the Mustang Unit, a Federal Unit, by an extension application currently pending.

If additional information is required for this exemption to location, please contact the undersigned.

Sincerely,

Michael D. Anderson

Staff Engineer

jw

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING

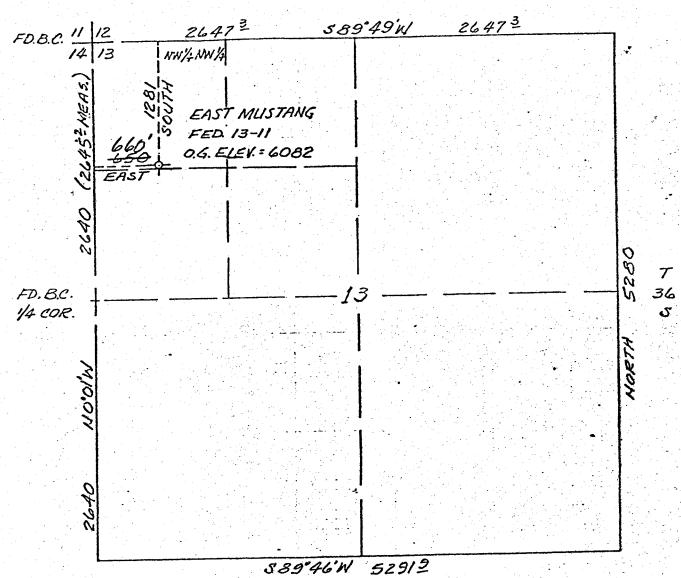
SUBMIT A RIPLICATE* (Other instructions on reverse side)

5. Lease Designation and Serial No.

					U-23523 ✓
APPLICATION	FOR PERMIT 1	O DRILL, DEEP	N, OR PLUG	BACK	6. If Indian, Allottee or Tribe Name
a. Type of Work					7. Unit Agreement Name
DRILL		DEEPEN [PLUG 8	BACK 🗌	
h. Type of Well Oil Gas			Sinula (T)	fulsion -	Mustang Unit S. Farm or Lease Name
Weil Wel	Other		Single M Zone Z	lultiple X	
. Name of Operator					East Mustang
	OIL COMPANY				9. Well No.
. Address of Operator			_		13-11
		Blag., Salt I		T 84111	
. Location of Well (Report		,			Wildcat ✓
At surface 1281 FNI	L & 660' FWL	$/(NW_4NW_4)$ Sec.	13, T36S-R	23E	II. Sec., T., R., M., or Bik. and Survey or Area Sec. 13, T36S-R23
At proposed prod. zone Same					Sec. 13, T36S-R23
4. Distance in miles and d	irection from nearest tov	en or post office*			12. County or Parrish 13. State
7.5 miles	s East-Northe	ast of Blandi	ng, Utah		San Juan Utah
 Distance from proposed location to nearest property or lease line, if (Also to nearest drlg. line) 	rt.	16. N	o. of acres in lease 720	17. No. o to this	f acres assigned s well 80
x Distance from proposed	location*	19. P	roposed depth	20. Rotary	or cable tools
to nearest well, drilling, or applied for, on this le	completed, Nease, ft.	I.A.	6300	N.	Rotary
1. Elevations (Show whether GL - 608)			De la		22. Approx. date work will start* Sept. 15, 1983
3.		PROPOSED CASING ANI	CEMENTING PROGR	AM	·
Size of Hole	Size of Casing	Weight per Foot	Setting Depth		Quantity of Cement
16"	13 3/8	48#	30'		Redi-Mix
12¼"	9 5/8	36#	2000'		900 sx (circ to
8 3/4"	7"	20-26#	6300'		700 sx
Subject of	lease is Fedewell is to be application ched Federal tional informations.	eral Lease No. e placed on the currently be 10 point plan nation. RAM: If proposal is to de	U-23523V ne existing leing reviewed a and Multipe APPROV OF UT OIL, G. DATE: BY: epen or plug back, give a on subsurface locatio	Mustang d. oint Su /ED BY AH DIVI AS, AND e data on presents and measur	ent productive one and proposed new pred and true vertical depths. Give blowo
Signed // What (This space for Federal	or State office use)	Title	Staff_Engi	neer	Date 9-2-83
D			Ammunual Data		
Permit No			Approval Date		
	to the source of	·		•	2
Approved by Conditions of approval.	if any	Title	***************************************		Date

BYDATE	SUBJECT				Sticki ito:		
	The second secon			\	JOB NO.	*************	
CHKD. BYDATE	***********	******************			* .	* * *	
•		***************************************		·	***********		*****
**********************************					•	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
	grade and the second second						₹

R23E



BOUNDARY CALLS ARE RECORD G.L.O.

WIAH R.L.S. Nº 1943

WELL LOCATION PLAT OF

EAST MUSTANG FED. 13-11 IN

NW 1/4 NW 1/4, SEC. 13, T365, R23E, S.L.B. \$1

SAN JUAN COUNTY, UTAH

TRANSIT & ED.M. SURVEY

FOR: SKYLINE OIL CO.

SCALE: 1"-1000" AUG. 5, 1983

ELEV. BY VER. ANGLES FROM U.S.G.S. TOPO. QUAD. BLANDING, UTAH 1957 (N.W. COR., SEC. 13 = 6165)

PERATOR Skyline Oil Co.	DATE 9/1/83
PERATOR Skyline Oil Co. ELL NAME Mustery Get #13-1	DATE <u>4/1/83</u>
EC NWNW 13 T 365 R	23E COUNTY San Juan
1 065 R	ase will san jaan
43-037- 30933 API NUMBER	TYPE OF LEASE
OSTING CHECK OFF:	
INDEX	MAP HL
NID	PI
ROCESSING COMENTS:	
The loc. letter received.	Ran [100
9/8/82 / Lacyting Wasting	(topography Unit:
Oil Well.	
PPROVAL LETTER:	
PACING: A-3 UNIT	c-3-a CAUSE NO. & DATE
c-3-b	c-3-c
PECIAL LANGUACE:	

	RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON PLAT MAP.
	AUTHENTICATE LEASE AND OPERATOR INFORMATION
	VERIFY ADEQUATE AND PROPER BONDING
	AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.
	APPLY SPACING CONSIDERATION
	ORDER UNIT c-3-b
	c-3-c
	CHECK DISTANCE TO NEAREST WELL.
	CHECK OUTSTANDING OR OVERDUE REPORTS FOR OPERATOR'S OTHER WELLS.
V	IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER
	IF IN OIL SHALE DESIGNATED AREA, SPECIAL APPROVAL LANGUAGE.

September 8, 1983

Skyline Oil Company 2000 University Club Bldg. Salt Lake City, Utah 84111

> RE: Well No. Mustang #13-11 NWNW Sec. 13, T.36S, R.23E 1281' FNL, 660' FWL San Juan County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to oil well on said unorthodox location is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure. Prior to sundding, a copy of the Utah Division of Water Rights (Phone No. 861-533-6071) approval for use or puchase of drilling water must be submitted to this office, otherwise this approval is void.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to <u>immediately</u> notify the following:

RONALD J. FIRTH - Chief Petroleum Engineer

Office: 533-5771 Home: 571-6068

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (acquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-037-30933.

Sincerely,

R, J. Firth

Chief Petroleum Engineer

RJF/as cc: Branch of Fluid Minerals Encl.

NOTICE OF SPUU
Company: SKYLINE OIL COMPANY
Caller: MIKE ANDERSON.
Phone:
Well Number: 13-11 DIVISION OF GAS & MINIMA
Location: NWNW 13-365-25E
County: SAN JUAN State: UTAH
Lease Number: U-23523
Lease Expiration Date:
Unit Name (If Applicable): MUSTANG UNIT EXT.
Date & Time Spudded: 12-22-83 4.00 A
D. Wala Spudder (Rotary:)
Details of Spud (Hole, Casing, Cement, etc.) 12/4" hole
Rotary Rig Name & Number:
Approximate Date Rotary Moves In:
· · · · · · · · · · · · · · · · · · ·
FOLLOW WITH SUNDRY NOTICE
Call Received By: $\mathcal{K}_{\mathcal{R}}$

12-23-83

Date:

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING 4241 State Office Building Salt Lake City, UT 84114

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Nam	ne & N	lumber_	EAST	MUST	ANG	# 13-	11	·			A1	——————————————————————————————————————
Operator	. S	KYLINE	OIL	COME	PANY		_Address	Salt	Lake	ersity City,		
Contract	or_B	AYLESS	DRIL	LINC	j		_Address			2669 n, New	Mexi	<u>co</u> 8749
Location	<u> N</u>	W 1/4_	NW	1/4	Sec	13	T. 36 S	<u>R.2</u>	3 E.	County_	San .	Juan
Water Sa	ands_								•			
	<u>D</u> e	epth				Volume			Ω	uality		
	From	То	•		Flow	Rate o	r Head		Fres	n or Sal	ty	
1										·	· · · · · · · · · · · · · · · · · · ·	
2	·	NO WAT	ER EN	COUN	TERE	.D		, <u>, , , , , , , , , , , , , , , , , , </u>				
3	· · · · · · · · · · · · · · · · · · ·		·									
4												
5							ide if ne	cessar	y)			
Formatic Shinar Ismay Remarks	ump - 61	<u>ps</u> - 2559	', Mo	enko	pi -	- 2930	', Cutle ', Akah	r - 3	003',	Hermo	sa -	4810',
NOTE:	(a)	Report and Rep	on th gulati	is fo	orm a and R	s provi ules of	ded for i	n Rule and P	C-20, rocedu	Genera re.	l Rule	S
	(b)	If a wa	ater a	naly	sis h	as beer	made of	the ab	ove re	ported :	zone,	

please forward a copy along with this form.

UNI STATES DEPARTMENT OF THE INTERIOR

SUBM	PWN	TRIPL	1. £•
Other	in syri	ictions	on re-
versesi	de) 🌠 👚	- Y:	1 2
L	الأخص	# 8 .	of Carry
- 4	_	## ## iii	57

6 IN INDIAN ALLOTTEE	OR TRIBE NAME	
U-23523		
o, cease designation :	the benine i.e.	

GE	OLOGICAL SURVEY	JOI'V	U-23523
SUNDRY NOTICE OF THE PROPERTY	ES AND REPORTS C s to drill or to deepen or plug ba ON FOR PERMIT—" for such pro	ON WELLS ack to a different reservoir. oposals.)	6. IS INDIAN, ALLOTTEE OR TRIBE NAME
1. OIL XX GAS WELL OTHER 2. NAME OF OPERATOR SKYLINE OIL COMPANY 3. ADDRESS OF OPERATOR 2000 University Club 4. LOCATION OF WELL (Report location clean See also space 17 below.) At surface	Building, Salt I	Lake City, UT8411.	WILDCAT 11. SEC., T., R., M., OR BLE. AND
1281' FNL & 660' FWL	15. ELEVATIONS (Show whether DF, OGL - 6080)	RT, CR, etc.)	Sec. 13, T. 36S, R23E, SLB& 12. COUNTY OF PARISH 13. STATE San Juan Utah
I # 43-037-30933 Check App		ature of Notice, Report, or C	Other Data
FRACTURE TREAT MU SHOOT OR ACIDIZE AB REPAIR WELL CH (Other)	LL OR ALTER CASING LITIPLE COMPLETE ANDON* ANGE PLANS	water shut-off fracture treatment shooting or acidizing (Other) Spud (Note: Report results Completion or Recomp	REPAIRING WELL ALTERING CASING ABANDONMENT* S of multiple completion on Well letion Report and Log form.) Including estimated date of starting any coll doubte for all markers and zones certi-
Spudded well 4:15 am Drilled 12%" hole to	12-22-83 Bayles	ss rig # 5. Jts 9-5/8" 36# K-	

Plug down 10 pm 12-24-83. W.O.C. circulated 200 sx cement to surface.

Install 9-5/8" wellhead. Nipple up BOP's. and pressure test to 1500 psi - OK, drill out float collar and cement, pressure test casing to 1000 psi - OK, drill out w/ 8-3/4" bit.



DIVISION OF GR., GAS & MINING

S. I hamby carrier that the foregoing is #fDe and correct		
S. I hereby certify that the foregoing is true and correct SIGNED Muhael . Anders	TITLE Staff Engineer	DATE 12-30-83.
(This space for Federal or State office use)	to the second se	
APPROVED BY	TITLE	DATE

UNITED STATES
DEPARTMENT OF THE IN
GEOLOGICAL SURVEY
(FORM 9-329)
(2/76)
OMB 42-RO 356

MONTHLY REPORT
OF
OPERATIONS

Lease No	<u>II-2°</u> 523		
Communitizat	ion Agree at No Wildcat		
Unit Name	Mustang Unit		
Participating i	Area		TT 1.
County	San Juan	_State _	<u>Utah</u>
Operator SKY	LINE OIL COMPANY		<u></u>
- 0	3		

☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of December, 1983

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C, 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfair the hond (30 CFR 221.53).

Well No.	Sec. & . % of %	TWP	RNG	Well Status	Days Prod.	•Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
3-11	NW NW Sec.11		23E	Drlg.					Spudded 12-22-83. Set 9-5/8"
									casing @ 1932'. Drilling @ 4824'
									W 4024
							, control of the cont	TE GEV	MEI
								JAN 10	I .
•								DIVISIO OIL, GAS 8	MINING

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

DISPOSITION OF TREE PROPERTY.			
	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
*On hand, Start of Month		XXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX
*Produced			XXXXXXXXXXXXXXX
*Sold		xxxxxxxxxxxxxx	XXXXXXXXXXXXXXX
*Spilled or Lost	XXXXXXXXXXXXXXX		XXXXXXXXXXXXXXX
*Flared or Vented	AAAAAAAAAAAAAAA		XXXXXXXXXXXXXXX
*Used on Lease			
*Injected		XXXXXXXXXXXXXXXX	
*Surface Pits	XXXXXXXXXXXXXXXX	AAAAAAAAAAA	
*Other (Identify)		XXXXXXXXXXXXXXXX	xxxxxxxxxxxxxx
*On hand, End of Month		AAAAAAAAAAAAA	XXXXXXXXXXXXXXX
*API Gravity/BTU Content)	2000 University	
Authorized Signature: Musikar Staff Engineer		1 - 1	Utah 84111
Title: Staff Engineer		Page of	

		Form approved.
Form 9-331 (May 1963)	UI STATES SUBMIT IN TRIP (Other instruction red) DEPARTMENT OF THE INTERIOR verse side) GEOLOGICAL SURVEY	5. LEASE DESIGNATION AND SERIAL NO. U-23523
· Po	SUNDRY NOTICES AND REPORTS ON WELLS not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)	6. IF INDIAN, ALLOTTEE OR THIBE NAME
1.		7. UNIT AGREEMENT NAME
MELL X	GAS OTHER	Mustang 8. FARM OR LEASE NAME
2. NAME OF	SKYLINE OIL COMPANY	East Mustang
3. ADDRESS		9. WELL NO.
2000 U 4. LOCATION See also At surfa	or Well (Report location clearly and in accordance with any State requirements.* space 17 below.)	13-11 10. FIELD AND POOE, OR WILDCAT Wildcat 11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA Sec. 13, T. 36 S., R. 23 SLM
14. PERMIT	NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.)	12. COUNTY OR PARISH 13. STATE
API #43	-037-30933 OGL-6080'	San Juan Utah
16.	Check Appropriate Box To Indicate Nature of Notice, Report, or	Other Data
	TURN CHEMODE	REPAIRING WELL
	ATER SHUT-OFF PULL OR ALTER CASING WATER SHUT-OFF PULL OR ALTER CASING FRACTURE TREATMENT FRACTURE TREATMENT	ALTERING CASING
	OR ACIDIZE ABANDON* SHOOTING OR ACIDIZING	ABANDONMENT* X
REPAIR	(Note: Report result	ts of multiple completion on Well
(Other	Completion or Recom PRESENCE OF COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent date sed work. If well is directionally drilled, give subsurface locations and measured and true vertices.	pletion Report and Log form.) s, including estimated date of starting any ical depths for all markers and zones perti-
nent t	s well has been P & A'd as follows:	
	Plug #1 6350' - 6150' 90 sx Plug #2 5900' - 5700' 90 sx Plug #3 3700' - 3500' 90 sx Plug #4 2035' - 1835' 90 sx Plug #5 Surface 10 sx	
	1148 115	and the second second
	Dry hole marker will be installed. Location rebegin as soon as weather conditions allow.	habiliation will
	Dry hole marker will be installed. Location re	habiliation will
	Dry hole marker will be installed. Location rebegin as soon as weather conditions allow.	habiliation will
	Dry hole marker will be installed. Location rebegin as soon as weather conditions allow.	habiliation will
	Dry hole marker will be installed. Location rebegin as soon as weather conditions allow.	habiliation will
	Dry hole marker will be installed. Location rebegin as soon as weather conditions allow.	habiliation will

SIGNED TITLE Staff Engineer

SIGNED TO STATE OF STATE OF UTAH DIVISION OF CONDITIONS OF APPROVAL, IF ANY:

Staff Engineer

Staff Engineer

DATE January 10, 1984

APPROVED BY THE STATE

OF UTAH DIVISION OF

OIL, GAS, AND MINING

DATE:

See Instructions on Reverse Side

orm 9-331 UI) STATES SUBMIT IN TRIE 3	Form approved. Budget Bureau No. 42-R1424.
DEPARTMENT OF THE INTERIOR verse side)	5. LEASE DESIGNATION AND SERIAL NO.
GEOLOGICAL SURVEY	U-23523
SUNDRY NOTICES AND REPORTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT-" for such proposals.)	
CIL CAS OTHER	7. UNIT AGREEMENT NAME Mustang
SKYLINE OIL COMPANY	8. FARM OR LEASE NAME East Mustang
. ADDRESS OF OPERATOR	9. WELL NO.
000 University Club Bldg., S.L.C., Utah 84111	13-11
LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)	10. FIELD AND POOL, OR WILDCAT
At surface	Wildcat 11. SEC., T., R., M., OB BLE. AND
L281' FNL & 660' FWL (NW NW) Sec.13, T.36 S., R.23 E.	Sec. 13, T. 36S., R. 23E
1 DEPAYLT NO. 15. ELEVATIONS (Show whether DF, RT, CR, etc.)	SI.B&M. 12. COUNTY OR PARISH 13. STATE
The state of the s	San Juan Utah
<u> </u>	
Check Appropriate Box To Indicate Nature of Notice, Report, or C	•
NOTICE OF INTENTION TO:	UENT REPORT OF:
TEST WATER SHUT-OFF PULL OR ALTER CASING WATER SHUT-OFF	REPAIRING WELL
FRACTURE TREAT MULTIPLE COMPLETE FRACTURE TREATMENT	ALTERING CASING
SHOOT OB ACIDIZE ABANDON* X SHOOTING OR ACIDIZING	ABANDONMENT*
(Other)	a of multiple completion on Well
(Other) Completion or Recomp	s of multiple completion on Well pletion Report and Log form.)
 DESCRIBE PROTOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates proposed work. If well is directionally drilled, give subsurface locations and measured and true vertic nent to this work.) * 	, including estimated date of starting any cal depths for all markers and zones perti-
proposed work. If well is directionally drined, give based to	
nent to this work.)*	
Drilled 8-3/4" hole to 6009'. Cut 67' core 6009' - 6	
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SIGNED TITLE Staff Engineer

(This space for Federal or State office use)

APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side BY:

*See Instructions on Reverse Side BY:

TerroTek

January 25, 1984

Skyline Oil Company University Club Building, Suite 2000 136 East South Temple Salt Lake City, Utah 84111

Attention: Mr. Mike Anderson

Subject: Core Analysis Data; East Mustang No. 13-11 Well; San Juan County,

Utah; TTCS File No. 491

Gentlemen:

Diamond coring equipment and water base mud were used to obtain 4.37-inch diameter cores from the formations and intervals shown on the preceding page in the subject well. A representative of Terra Tek Core Services received the cores at the wellsite where they were preserved in saran film and plastic polytubing and transported to our Salt Lake City laboratory for routine retort analysis.

A core gamma log was recorded and, along with porosity, permeability, grain density and fluid saturation plots, is shown on the enclosed TEKLOG.

Residual fluid removal was removal accomplished by the controlled temperature retort extraction method on 100-gram crushed samples. Porosities were determined by the summation-of-fluids technique. Horizontal permeabilities to nitrogen were measured on one-inch diameter plugs in a hassler sleeve using the traveling meniscus method to monitor downstream flow.

Data resulting from the above analysis is tabulated on page one followed by a summary reflecting average data by zones based on permeability, porosity and fluid saturation variations.

The cores are temporarily being stored in our Salt Lake City laboratory awaiting additional instructions.

^{• 360} Wakara Way • Salt Lake City, Utah 84108 • (801) 584-2480

 ⁹²⁰ Central Avenue
 Suite #2
 Billings, Montana 59102
 (406) 256-0371

We sincerely appreciate this opportunity to be of service.

Very truly yours,

Íack R. Good

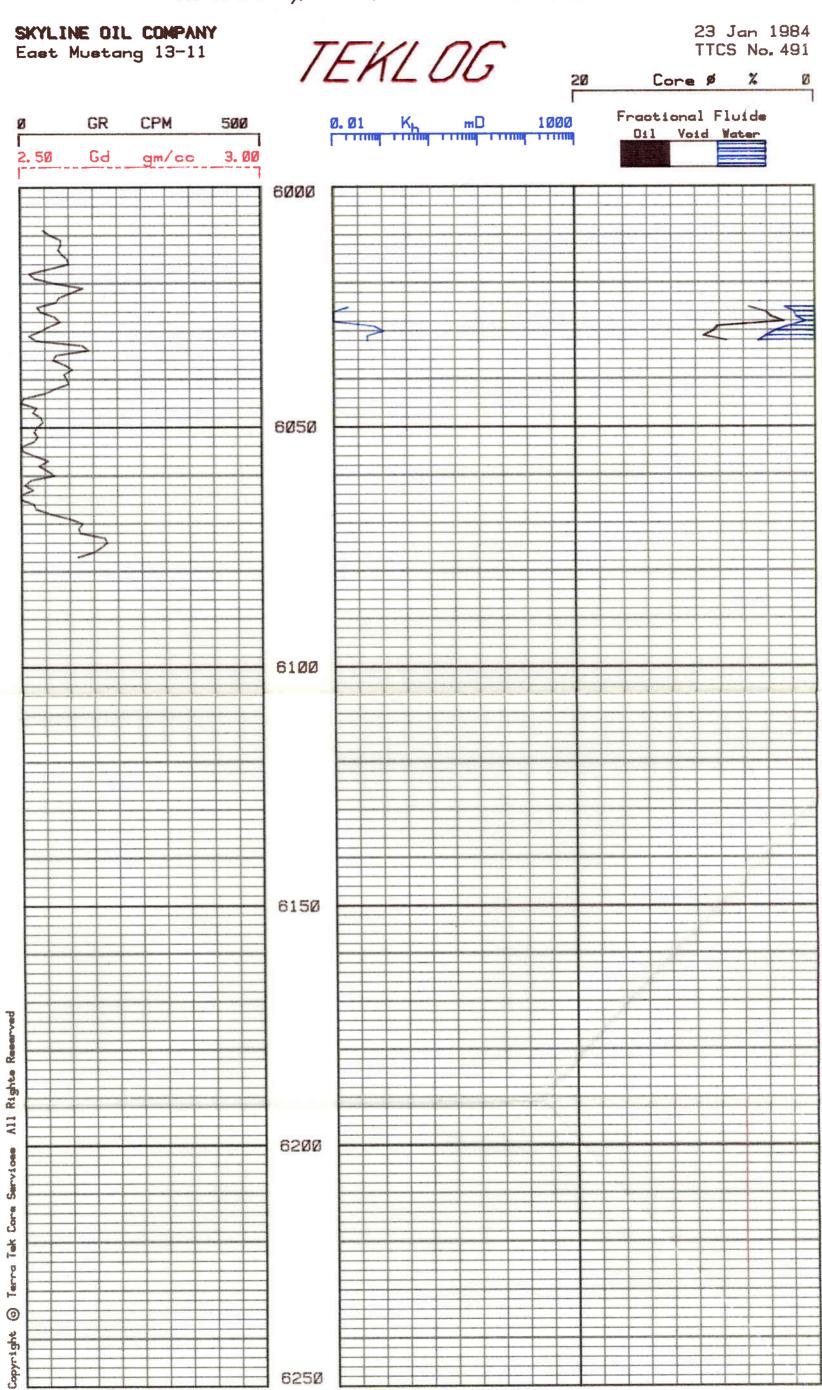
Laboratory Director

JRG:lj Enclosure

6 COPIES SENT TO ADDRESSEE

TERRA TEK CORE SERVICES INC.

360 Wakara Way. SLC Utah 84108 (801) 584-2480





TERRA TEK CORE SERVICES INC.

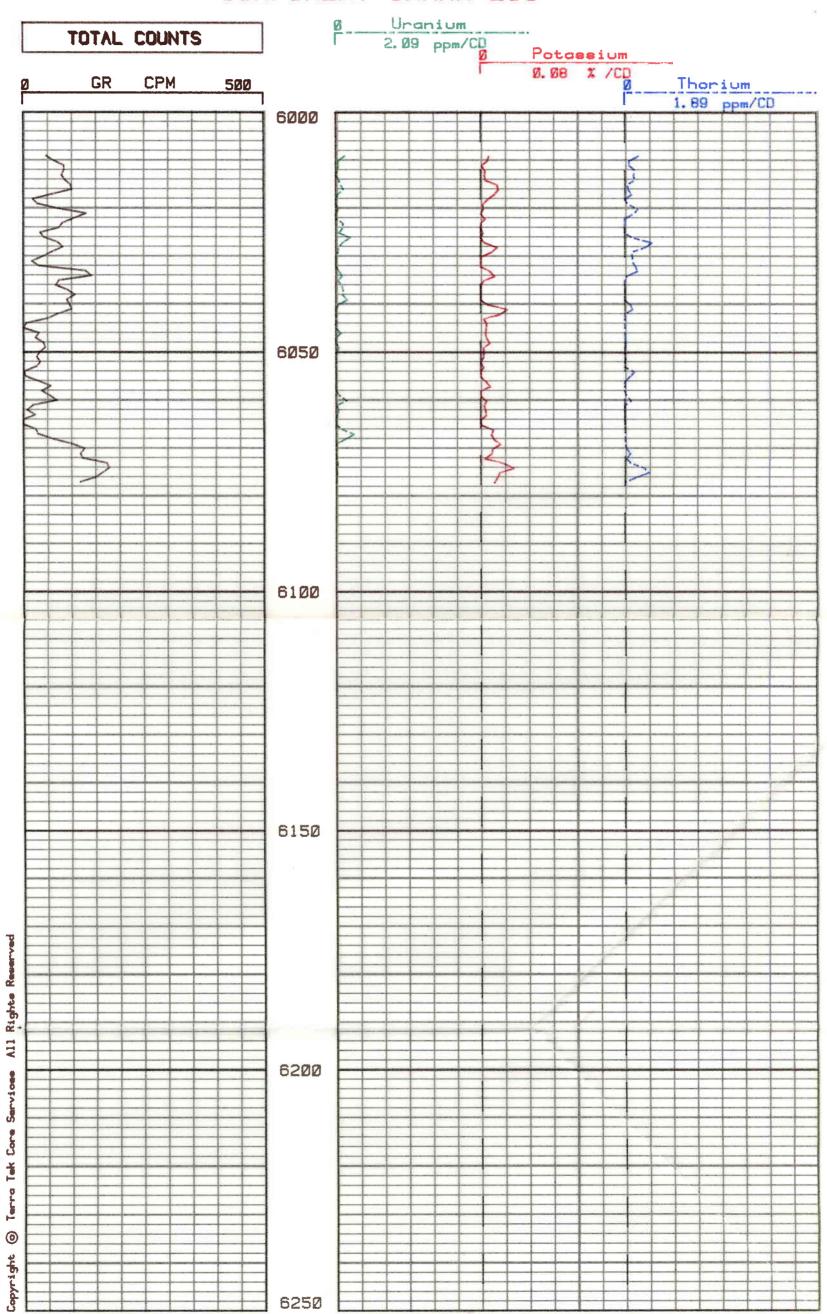
360 Wakara Way. SLC Utah 84108 (801) 584-2480

SKYLINE DIL COMPANY

East Mustang 13-11

25 Jan 1984 TTCS No. 491

COMPONENT GAMMA LOG





Terra Tek Core Services®

University Research Park - 360 Wakara Way - Salt Lake City, Utah 84108 - (801) 584-2480 - TWX 910-925-5284

SKYLINE DIL COMPANY

Well:

East Mustans 13-11

Field:

Wildcat

Drilling Fluid: Gel

State: Counts:

Location:

Utah

San Juan

Sec 13-T36S-R23E

Date: 25 Jan 1984

TTCS File #: 491

Elevation: 6090 KB

RETORT ANALYSIS-SUMMATION OF FLUIDS POROSITY

Sample Depth Horz Oil H2O Density Number (feet) (md) (%) (%) (%) (sm/cc)		결보	Litholoss	Grain	ation	Satur	Porosity	Permeability		
Number (1991) (MO) (%) (%) (SM/CC)							/ 9/ \			
	* **** **** **** ***** ***** *****			\SM/CC/	\	\\\\\ 	\/s/ 	\mu/	(1660)	

	6009.0 - 6025.0					Ls,dse,scat sty & sh lam
1	6025.0-26.0	0.02	5.5	0.0	45.1	Ls,fxl,fos
2	6026.0-27.0	0.01	4.1	0.0	41.1	Ls,fxl,fos
3	6027.0-28.0	0.01	3.7	3.5	41.7	Ls,fxl,fos,pp vss
4	6028.0-29.0	0.01	2.6	3.0	29.5	Ls,fxl,fos,pp vds
5	6029.0-30.0	0.07	8.2	1.6	26.3	Ls,fxl-suc
6	6030.0-31.0	0.11	8.5	0.9	38.7	Ls,fxl-suc
7	6031.0-32.0	0.05	9.3	0.0	43.5	Ls,fxl-suc
8	6032.0-33.0	0.05	7.4	0.0	63.6	Ls,fxl-suc
	6033.0 - 6045.0					Ls,dse,scat sty & sh lam
	6045.0 - 6046.0					NOT RECOVERED
	6046.0 - 6068.0					Ls,dse,scat sty & sh lam
	6068.0 - 6070.0					Ls,dse,shy
	6070.0 - 6077.0					Sh.lmy
	6077.0 - 6078.0					NOT RECOVERED

Terra Tek Core Services®

University Research Park - 360 Wakara Way - Salt Lake City, Utah 84108 - (801) 584-2480 - TWX 910-925-5284

SKYLINE OIL COMPANY

Well: Field: East Mustans 13-11

Wildcat

Drilling Fluid: Gel

State: County: Utah

San Juan

[0.5]

0.0

[0.0]

[8.8]

53.5

E14.23

Location: Sec 13-T36S-R23E

Date:

25 Jan 1984

TTCS File #: 491

Elevation: 6090 KB

RETORT ANALYSIS-SUMMATION OF FLUIDS POROSITY DATA SUMMARY

Zone Number	Derth Interval (feet)	Number Poor of samples	ermeabilits Horz (md)	Forosity (%)	Satur Oil (%)	etion H2O (%)	Grain Density (sm/cc)
ISMAY F	ORMATION						
1	6025.0-027.0	2	0.02 [0.01]	4.8 [1.0]	0.0	43.1 [2.8]	
2	6027.0-029.0	2	0.01 [0.00]	3.2 [0.8]	3.2 [0.4]	35.6 [8.6]	
3	6029.0-031.0	2	0.09	8.4	1.2	32.5	

E0.033

[0.003

0.05

[0.2]

8.4

[1.3]

6031.0-033.0

Terra Tek Core Services®

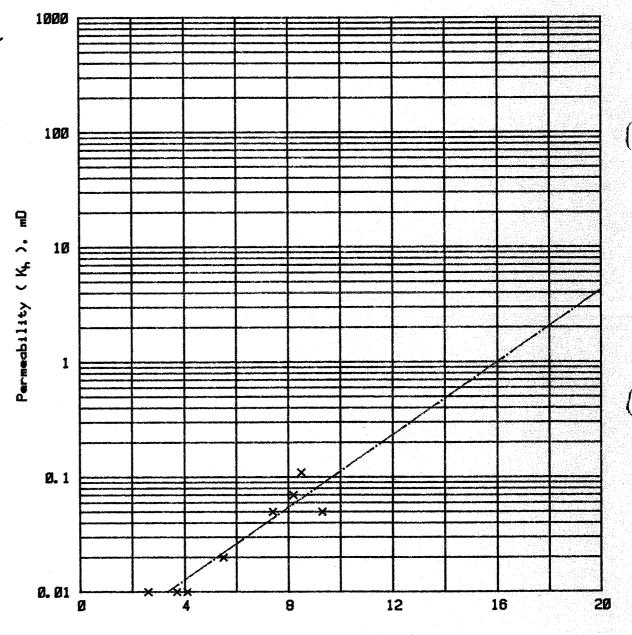
University Research Park - 360 Wakara Way - Salt Lake City, Utah 84108 - (801) 584-2480 - TWX 910-925-5284

HORIZONTAL PERMEABILITY VS POROSITY

SKYLINE OIL COMPANY

East Mustang 13-11 Wildcat Field San Juan County, Utah 25 Jan 1984

Depth I	nterval :	6 8 25 to	6033 feet
	ermeability Mc D.		
<u> </u>	Porosity Ko 9.		
	Equation o	f the Lin	
- "	Slope Ø	-	of intercept 2.5246
Corre	lation Coef	fficient :	. 938



Porceity (\$), X



Core Services, Inc.®

TerroTek



SKYLINE OIL COMPANY
East Mustang No. 13-11 Well
San Juan County, Utah

TTCS File No. 491

DIVISION OF OH, GAS & MINING

CORE NO.	INTERVAL	FORMATION
1	6009-6043	Ismay
2	6043-6046	Ismay
3	6046-6078	Ismay

 ³⁶⁰ Wakara Way
 Salt Lake City, Utah 84108
 (801) 584-2480

^{• 920} Central Avenue • Suite #2 • Billings, Montana 59102 • (406) 256-0371

SKYLINE (Oil Company

A TEXAS EASTERN COMPANY

January 24, 1984

State of Utah Division of Oil, Gas and Mining 4241 State Office Building Salt Lake City, Utah 84114



Re East Mustang #13-11 OH, GAS & MINING NW NW Sec. 13, T. 36 S., R. 23 E., MINING San Juan County, Utah

Gentlemen:

Attached please find the Well Completion Report for the above-referenced well. At present the Geological Report has not been received by this office and is not attached. When received, a copy of the Geologic Report will be forwarded.

If you have any questions concerning this matter, please advise.

Sincerely,

Michael D. Anderson,

Staff Engineer

Attachment

DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

SUBMIT IN DUPLICA (See other instructions on reverse side) Form approved.

5. LEASE U-23523

Budget Bure	au N	o. 42–R3	55.5.	
				1
DESIGNATION	AND	SERIAL	NO.	4

Ε.,

							TE INDIAN	ALLOTT	EE OR TRIBE NAME
WELL CO	MPLETION	OR RECOM	PLETION I	REPOR	T AND LO	G*	o. is india:	, ALLUII	EN OR INIDA MANIE
ia. TYPE OF WEI			F.77	Other	· · · · · · · · · · · · · · · · · · ·		. UNIT AGR	EEMENT 1	NAME
b. TYPE OF COM		WELL C	DRY LAS	Otner					STANG
NEW X	WORK DEEP	PLUG BACK	DIFF. RESVR.	Other			. FARM OR	LEASE N	AME
2. NAME OF OPERA	TOD						E	AST M	IUSTANG
	SKILIN.	E OIL COM	PANI			-	WELL NO		
3. ADDRESS OF OPE								13-1	.1
2000 Univ	versity ${ t C1}$	ub Bldg.,	S.L.C.,	Utah	84111	. 7			OR WILDCAT
4. LOCATION OF WE	LL (Report location	clearly and in acc	cordance with an	y State re	equirements)*			Wildo	at
At surface							11. SEC., T., OR AREA		BLOCK AND SURVEY
At top prod. in	& 660' F	MT (IAM IAM) Sec. 13	, 1.0	00 S., K.Z	3 E. S			36 S.,R.2
Same		er e						14 - Marie	S.L.M
At total depth							0	A.	13. STATE
Same	3		14. PERMIT NO.		DATE ISSUED 1 9-8-83	'	2. COUNTY PARISH	OR	10. SIAIL
			43-037-3		7		San J		Utah EV. CASINGHEAD
5. DATE SPUDDED	16. DATE T.D. RE.	ACHED 17. DATE	COMPL. (Ready t	o proa.	18. ELEVATIONS (GR, ETC.)*	19. EL	LV. CASINGADAD
2-22-83	1-9-84		D 22. IF MUL	MIDI P. CO.	OGL-6080	ERVALS	ROTARY TO	-	CABLE TOOLS
O. TOTAL DEPTH, MD	ì	BACK T.D., MD & TV	HOW M			LLED BY	X X	r	47.5
6355	RVAL(S), OF THIS C	6355'	OMMON NAME (MD AND TO	FD*	<u>→ </u>	<u> </u>	1 25	WAS DIRECTIONAL
- 1			JOILUM, MAME (I	AND 1					SURVEY MADE
P &	A 1-10-8	4							No =
6 TYPE FIRETRIC	AND OTHER LOGS RU	IN						27. WAS	WELL CORED
		ALL PROPERTY CONTRACTOR OF THE PERSON NAMED IN CONTRACTOR OF THE PERSON NA	HC Sonic						Yes
R-DIL-SFI	3, GPC-T-DC-				rings set in well)			>	
CASING SIZE	WEIGHT, LB./F			LE SIZE		MENTING RE	CORD		AMOUNT PULLED
9-5/8"	36#	1932'		12七"	550 sx	50/50	Poz		None
9-370	301/	- 1002				Class	B		
				····					
	_					·		-	
9.	L	INER RECORD				1 TIU	BING REC	ORD	
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						VIC			
				1116			11/3		
1. PERFORATION RE	CORD (Interval, size	and number)	····	1117	/ACID, SHOT	C PRACTU	e, cemen	T SQUEE	ZE, ETC.
				DEPTH	INTERVAL (MD)	7 -			TERIAL USED
P &	A 1-10-8	4				ΛF			
		e en			DIVISION	Ur	· ·		
				0	H GAS &	VINING			
3.*				DUCTION					
ATE FIRST PRODUCT	rion Produc	TION METHOD (Flo	wing, gas lift, p	umping	size and type of pu	mp)		STATUS (ut-in)	(Producing or
	<u> </u>		· .						
ATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL-B	BL. GAS—M	CF.	WATER—BB	L. GA	AS-OIL RATIO
	1		 >						
LOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL-BBL.	G.	AS—MCF.	WATER-B	BL.	OIL GRA	VITY-API (CORR.)
		<u> </u>							
4. DISPOSITION OF C	GAS (Sold, used for f	uel, vented, etc.)				1 2	EST WITNE	SSED BY	<u>.</u>
<u> </u>			· · · · · · · · · · · · · · · · · · ·						· ·
5. LIST OF ATTACE	MENTS Ysis repor	ta Caala	gianl Da	nort	Flactric	Loge	nrawi	011675	v suhmitte
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	1 1 6 11	and attached info	rmation is comp				avanabie i		
signed Z	MacKILO	Inclusion	TITLE	Stai	f Enginee	er	DAT	$_{\scriptscriptstyle m E}$ 1 – 2	24-84
UNGRADIA ELECTRICA			- IIII						

INSTRUCTIONS

arsuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, See instructions on Items 22 and 24, and 33, below regarding separate reports for separate completions. both, pursuant to applicable Federal and/or State laws and regulations.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments

be listed on this form, see item 35. should

there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. or Federal office for specific instructions. tem

Submit a separate completion reportion Hem 29: 1

		TRUE VERT. DEPTH														
	TOP	MEAS. DEPTH			25591	2630'	3003	4810'	5973'	6137	6228	6318'	63551			
		KAMIN		Chinle	Shinarump	Moenkopi	Cutler	Hermosa	Ismay (Upper)	Ismay (Lower)	Desert Creek	Akah Shale	T.D.			
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AND SHUT-IN PRESSURES, AND RECOVERIES	DESCRIPTION, CONTENTS, ETC.															
	DESCRIPTION															
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DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OILEN, FLOWING	FORMATION		Ismay	· · · · · · · · · · · · · · · · · · ·												

GPO 680-378

SKYLINE (Oil Company

A TEXAS EASTERN COMPANY



DIVISION OF OFL, GAS & MINING

March 7, 1984

State of Utah Division of Oil, Gas & Mining 4241 State Office Building Salt Lake City, Utah 84114

> Re East Mustang #13-11 NW NW Sec. 13, T. 36 S., R. 23 E., San Juan County, Utah

Gentlemen:

Please find attached two copies of the Geologic Report for the above-referenced well.

If you have any questions concerning this matter, please advise.

Sincerely,

Michael D. Anderson,

Staff Engineer

Attachments

GEOLOGICAL REVIEW

SKYLINE OIL CO.
Mustang Unit # 13-11
Sec. 13, T 36 S - R 23 E
San Juan Co. Utah

GENERAL OPERATIONS

The drilling of this well was undertaken using rotary tools. Fresh water and a chemically treated gel mud were used as the circulating medium.

In order to protect fresh water aquifers and to insure against drilling problems, a protective string of 9-5/8" casing was set to a depth of 1935'. Sufficient cement was run to circulate to the surface. This is sufficient casing to cover all recognized fresh water aquifers in the area.

All drilling objectives were achieved with a minimal amount of operational problems. At no time did situations arise that constituted an undue danger to either the drilling equipment or the drilling personnel involved in the operation.

EVALUATION

GEOLOGICAL SUPERVISION:

This well was under constant geological supervision from a depth of 4500' until total depth was reached.

SAMPLES:

Ten foot samples were caught from a depth of 4000' to the total depth. All samples were caught and microscopically examined while drilling was in progress.

MUD LOGGING:

A one man mud logging unit was utilized from a depth of 4000 until total depth was reached. This unit was equipped with both a hot wire and a chromatograph for hydrocarbon analysis.

Several shows were encountered during the drilling of the well but none of them were associated with sufficient porosity nor were of sufficient magnitude to warrant a test. CORES:

It was intended to core the upper Ismay horizon in this well. This was accomplished with some operational difficulty. Because of the fractured and highly stylolitic nature of this horizon, frequent jamming of the core barrel occured. After three core runs, sufficient core was recovered to evaluate the zone.

DRILL STEM TESTS:

Lack of substantial shows and evidences of porosity precluded the conduct of drill stem tests.

ELECTRICAL LOGGING:

Upon reaching a total depth of 6355' the following logs were run by Schlumberger.

DIL-	SFL w	GR				 1935	-	6356
BHC	SONIC	w	GR	&	Caliper	1935	_	6356
CNT	- FDC	w	GR	&	Caliper	1935	-	6356

Evaluation of these logs revealed no additional zones of interest and confirmed the sample and mud log analysis of the prospective zones.

CONCLUSIONS

Evaluation of all information available indicated this well to have no economic value.

It was recommended that this well be plugged and abandoned and these steps were subsequently taken.

RECOMMENDATIONS

The superior stratigraphic conditions that had been anticipated in this well were not encountered. The upper Ismay pay zone was comprised of a very dense limestone that was essentially devoid of porosity.

The prospect area is now assuming the classical form of reefal deposition. The dense limestones to the north being the fore reef facies, the anhydrites to the south are back reef or lagoonal facies with dolotimation and consequent development of porosity in the rocks in between.

It now appears that the orientation of this trend is roughly northwest - southeast.

An intensive stratigraphic study should now possibly define the true orientation of the reefal body and perhaps lend some information as to the areal extent of this reefal body.

IMPORTANT TOPS:			
AGE	FORMATION	DEPTH	DATUM
Triassic	Shinarump	2559	+3534
Permian	Moenkopi	2630	+3463
	Cutler	3003	+3090
Pennsylvanian	Hermosa	4810	+1283
n n	Ismay (upper)	5973	+120
"	Ismay (lower)	6137	-44
	Desert Creek	6228	-135
i	Akah	6318	-225
Total Depth		6355	-262

16.

UN D STATES DEPARTMENT OF THE INTERIOR

(Other instructions on yerse side)

Form approved.

Budget Bureau No. 42-R1424.

6. LEASE DESIGNATION AND SERIAL

 •	• •	•	-	• •			-	_			
				G	EC)L	O	SIC	AL	SI	JRVEY

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.

Use "APPLICATION FOR PERMIT—" for such proposals.)

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)	-1411VI
	7. UNIT AGREEMENT NAME
OIL X GAS OTHER	MUSTANG
T 200	8. FARM OR LEASE NAME
SKYLINE OIL COMPANY	EAST MUSTANG
3. ADDRESS OF OPERATOR 2000 University Club Building, S.L.C., Utah 84111	9. WELL NO. 13-11
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*	10. FIELD AND POOL, OR WILDCAT
4. LOCATION OF WELL (Report location clearly and in decordance of the second se	Wildcat
1281' FNL & 660' FWL (NW NW) Sec.13, T.36 S., R.23 E.	11. SEC., T., B., M., OR BLK. AND SURVEY OR AREA
	Sec.13, T.36 S.,R.23 E.
	SLM
14 PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, CR, etc.)	12. COUNTY OR PARISH 13. STATE
14. PERMIT NO. APT #43-037-30933 OGL-6080'	San Juan Utah

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

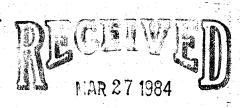
SUBSEQUENT REPORT OF: NOTICE OF INTENTION TO: REPAIRING WELL PULL OR ALTER CASING TEST WATER SHUT-OFF ALTERING CASING FRACTURE TREATMENT MULTIPLE COMPLETE FRACTURE TREAT SHOOTING OR ACIDIZING ABANDON* SHOOT OR ACIDIZE CHANGE PLANS (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) REPAIR WELL (Other)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

In reference to your letter of March 21, 1984, the following operations have been completed as requested:

- A. The surface casing was cemented with 10 sx Class "B" cement and dry hole marker installed.
- B. All open ratholes were filled, spilled mud chemicals were cleaned up, and the fence surrounding the mud pit repaired.

All items were completed on 3-24-84.



DIVISION OF OHL, GAS & MINING

18. I hereby certify that the foresting is true and SIGNED MUMBLE . for the		Staff Engineer	DATE 3-26-84
(This space for Federal or State office use)		MEERENE	BY THE STATE
APPROVED BY	TITLE _	OF UTA	H DIVISION OF
		DATE:	A SULLAND
	*See Instruct	ions on Reverse Sty:	

ic: m. Anderson

Bureau of Land Management Branch of Fluid Minerals (U-922) 324 South State Street Salt Lake City, Utah 84111-2303

022404

February 6, 1987

Samedan Oil Corporation 1616 Glenarm Place Suite 2550 Denver, Colorado 80202

L. M. TURNER FEB . 9 1987

Land & Property Admin.

Re: Successor of Operator Mustang Unit San Juan County, Utah

Gentlemen: .

We received an indenture dated February 1, 1987, whereby Texas Eastern Skyline Oil Company resigned as Operator and Samedan Oil Corporation was designated as Operator for the Mustang Unit Agreement, San Juan County, Utah.

This indenture was executed by all required parties. The signatory parties have complied with Section 6 of the unit agreement. The instrument is hereby accepted effective as of February 6, 1987. Please advise all interested parties of the change in unit operator.

Sincerely,

(Orig. Sgd.) H.A. Lemm

Howard A. Lemm Chief, Branch of Fluid Minerals

Enclosure

cc: Texas Eastern Skyline Oil Company

FEB 58 1837

TRIPLICATE* anstructions 02120	7
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STATE OF UTAH		side) UZIZU ((
DEPARTMENT OF NATURAL RESOURCES		<u> </u>		
DIVISION OF OIL, GAS, AND MININ	IG	5. LEASE DESIGNATION	AND BERIAL NO.	
		U- 23523	B OR TRIBE VAME	
SUNDRY NOTICES AND REPORTS ON				
(Do not use this form for proposals to drill or to deepen or plug back Use "APPLICATION FOR PERMIT—" for such propo	to a different reservoir.			
		7. UNIT AGREEMENT NA	MB	
WELL WELL OTHER PSA		Mustang		
2. NAME OF OPERATOR		8. FARM OR LEASE NAM	(3	
Texas Eastern Skyline Oil Company		Mustang Unit	•	
8. ADDRESS OF OFFELTOR 1775 Sherman Street, Suite 1200, Denver, Colora		9. WELL NO.		
		13-11		
 LOCATION OF WELL (Report location clearly and in accordance with any States also space 17 below.) At surface 	te requirements."	Wildcat		
		11. ssc., T., S., M., OB I	LE. AND	
1281' FNL & 660'FWL (NW NW) Sec. 13, T36S, R	23E	Sec. 13, T36		
		SLB&M	3, R23E,	
14. PERMIT NO. 15. BLEVATIONS (Show whether DF, RT,	QR, etc.)	12. COUNTY OR PARISH	18. STATE	
API #43-037-30933 GL - 6080'		San Juan	Utah	
16. Check Appropriate Box To Indicate Natu	re of Notice. Report, or (Other Data		
NOTICE OF INTENTION TO:		UENT REPORT OF:		
TEST WATER SHUT-OFF PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING W		
FRACTURE TREAT MULTIPLE COMPLETE SHOOT OR ACIDIZE ABANDON®	FRACTURE TREATMENT SHOUTING OR ACIDIZING	ALTERING CA		
REPAIR WELL CHANGE PLANS	(Other)			
(Other)	(NOTE: Report results	of multiple completion of delication of multiple completion Report and Log for	on Well	
 DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent de proposed work. If well is directionally drilled, give subsurface locations nent to this work.) 				
The subject well has been rehabilitated and resec	eded as required.			
Texas Eastern Skyline Oil Company respectfully		office		
conduct an inspection of the subject well and app	prove the rehabilita	tion as		
complete.				
	INIE/	Pisitalisia	À	
		CEIVE		
•	int/シ		5 M	



DIVISION OF OIL, GAS & MINING

813. I hereby certify that the foregoing is true and correct SIGNED WHALL SURVINE		Manager	DATE Z-5-87
(This space for Federal or State office use)			
APPROVED BY	TITLE _		DATE

Form 3160-5 (November 1983) (Formerly 9-331)	UNITED ST PARTMEN F T BUREAU OF LAND	HE INTERIO	SUBMIT IN TRIPLICA (Other instruction rerse side)	5. LEASE DESIGNATION U-23523	AND SBRIAL NO.
(Do not use this form Use	NOTICES AND for proposals to drill or to "Application for Peri			02241	3
OIL GAS GAS	888TO			7. UNIT AGEREMENT N Mustang	
Texas Eastern	Skyline Oil Comp	any		East Mustang	ME
1775 Sherman S	treet, Suite 1200	, Denver CO	80203	9. WBLL NO. 13-11	
4. LOCATION OF WELL (Report See also space 17 below.) At surface 1281 FNL & 660	-	·	•	10. PIBLD AND POOL, O	
1201 FAL 6 000	WE (NW NW) 30		11200	Sec. 13, T365	L .
14. PERMIT NO. API #43-037-3093	1	(Show whether DF, BT, 6080 ¹	, ox, etc.)	12. COUNTY OR PARISE San Juan	Utah
16. · Cl	eck Appropriate Box	To Indicate Nati	ure of Notice, Report, o	r Other Data	<u> </u>
NOTICE	OF INTENTION TO:	1	SUBS	EQUENT REPORT OF:	
TEST WATER SHUT-OFF	PULL OR ALTER CA	31N0	WATER SHUT-OFF	REPAIRING 1	WELL
FRACTURE TREAT	MULTIPLE COMPLE	TE	PRACTURE TREATMENT	ALTELING C	
SHOOT OR ACIDIZE	ABANDON*		BHOOTING OR ACIDIZING	THEODORAGE	NT.
REPAIR WELL	CHANGE PLANS		(Other) Notice of		X
(Other)			(Nots: Report resu Completion or Reco	ilts of multiple completion makes and Log for	on Well
property to Sam	edan Oil Corpora	ation. Effect	ry 30, 1987, comp	oy the BLM of the	:
Samedan's addre	ess is:				
	1616 G	an Oil Corpor lenarm Place r, Colorado	, Suite 2550		
	A	ttn: Gary B	rune FE	IB 2 3 1987	
				IVISION OF GAS & ANNING	
18. I hereby certify that the for	going is true and correct			· · · · · · · · · · · · · · · · · · ·	
SIGNED MULLIUM	. Chilium	TITLE M	anager	DATE 2-2-	87
Michael D. (This space for Federal or S					
APPROVED BY		TITLE		DATE	
CONDITIONS OF APPROVA	L, IF ANY:				·

*See Instructions on Reverse Side